

## ORIGINAL ARTICLE

# A new species of the genus *Meligethes* Stephens (Coleoptera: Nitidulidae: Meligethinae) from China

Xiao-Li Lin<sup>1</sup>, Ying Chen<sup>1</sup>, Min Huang<sup>1\*</sup>, Xing-Ke Yang<sup>2</sup>

<sup>1</sup> Key Laboratory of Plant Protection Resources and Pest Management of the Ministry of Education, Entomological Museum, Northwest A&F University, Yangling, Shaanxi 712100, China

<sup>2</sup> Key Laboratory of Zoological Systematics and Evolution, Institute of Zoology, Chinese Academy of Sciences, Beijing 100101, China

\* Corresponding author; E-mail: huangmin@nwsuaf.edu.cn

**Abstract** A new species, *Meligethes polyedricus* **sp. nov.**, and five newly recorded species of the genus *Meligethes* Stephens (Coleoptera: Nitidulidae: Meligethinae) in China are described and illustrated. A general catalogue of *Meligethes* from China is provided. The materials examined are deposited in Institute of Zoology, Chinese Academy of Sciences, Beijing, China (IZCAS).

**Key words** Polyphaga, *Meligethes*, taxonomy, new species, catalogue.

## 1 Introduction

The genus *Meligethes* Stephens, 1830 has high species diversity and a wide distribution across the six zoogeographical regions, but its species are mostly found in Holarctic, African and Oriental Regions. All species of this genus are phytophagous and associated with flowers. They can be used as natural pollination agents to increase fruit setting rates and yields (Nadel & Pena, 1994) showing their important economic significance in agriculture.

The genus *Meligethes* belongs to the subfamily Meligethinae in the family Nitidulidae. It was established by Stephens in 1830 (type species: *Nitidula rufipes* Marsham, 1802) and can be easily recognized by the large arcuate impressions on the 7th sternite, usually long and slender mesotibiae and metatibiae, and raised elytral humeri. The genus *Meligethes* Stephens, 1830 includes 6 subgenera (Kirejtshuk, 2008). Audisio *et al.* (2009) and Trizzino *et al.* (2009) proposed the delimitation of *Meligethes* into a monophyletic clade, with the remaining more than 500 species transferred to other previous-described or new genera.

Wang (2002) published the first survey on the genus *Meligethes* of China and described the external genitalia of *Meligethes aeneus* (Fabricius, 1775) in detail. Audisio *et al.* (2005) published 4 new species and provided a check-list for the Chinese *Meligethes*. Kirejtshuk (2005) described a new species from Taiwan. Hisamatsu (2009) provided a key to Taiwan *Meligethes* species. Ying *et al.* (2013) described a new species from Sichuan Province. In this paper, we describe a new species and five newly recorded species in the genus *Meligethes* from China. A general catalogue of *Meligethes* from China are also provided here.

## 2 Materials and methods

All descriptions and measurements were made under an Olympus SZ 61 microscope. All figures were made using a

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digital camera (Nikon D300S) attached to a stereomicroscope (Zeiss Discovery V12) and Helicon Focus 5.1 software at the Institute of Zoology, Chinese Academy of Sciences, Beijing. Drawings were made using a camera lucida attached to astereomicroscope Leica MZ12.5.

### 3 Taxonomy

#### *Meligethes polyedricus* sp. nov. (Figs 1–2, 45–49)

**Diagnosis.** The species is characterized by the uniqueness of male genitalia, tegmen pentangular with a small V-shaped excision and median lobe trapezoidal.

**Description.** Length 1.7 mm, breadth 1.1 mm, height 0.7 mm.

Body colour brown and rather shining with clear blue lustre; pronotum with narrow transparent lateral margins; head and pronotum with fine and significant yellow pubescence longer than distances among their insertions (Figs 1–2).

Body moderately convex and oval. Head with punctures equal to eye facets in diameter, interspaces among them broader than or equal to a puncture diameter and smoothly microreticulated. Pronotum with finer punctures, interspaces on disk almost smooth. Scutellum semicircular and rugose with very fine punctuations close to each other. Elytra with punctures similar to pronotum, interspaces smooth and among them markedly broader than a puncture diameter. Prosternal process with dense punctures slightly smaller than eye facets in diameter. Metaventricle and abdominal sternite 1 with more or less distinct punctures markedly smaller than eye facets in diameter, and with interspaces completely smooth and among them larger than a puncture diameter.

Head subflattened and about as long as the distance between moderately large eyes (consisting of rather fine facets), clypeus anterior edge slightly bordered, transverse and with lateral angles rounded (Fig. 45). Antennal grooves subparallel. Antennal club composing about 3/10 of total length, about 3/2 long as wide. Pronotum with anterior edge rather arcuated than trapezoidally excised, its posterior edge sinuated. Elytra longer than their combined width, both sides of elytra curved, sharply narrowing distad to round apices. Pygidium slightly convex, apically rounded at apex.

Last labial palpomere about 2.1 long as wide, clearly narrowed apically. Mentum subpentangular, 3 times wider than long, with sides subparallel. Prosternum gently convex along the middle, with distinctly prosternal grooves; prosternal process elongated and gradually widened with apex broadly rounded, its broadened part stretching up to widest point of prosternum and distinctly broader than antennal club (Fig. 47). Distance between metacoxae about 2 times as great as that between mesocoxa, about 3 times as great as that between procoxae. Metaventricle convex with a weak median depression.

Femora almost 1.5 times as wide as corresponding tibiae, tarsi moderately short, about 1/2 as long as corresponding tibiae. Protibia moderately crenulated along outer edge, but with three larger teeth in distal position, obviously wider than antennal club (Fig. 46). Mesotibiae and metatibiae with a single row of long and thin pegs along outer edge. Protarsus about 4/5 as wide as protibia. Claws without dentation at base.

Tegmen and median lobe (penis trunk) slightly sclerotised, tegmen pentangular with a small V-shaped excision, median lobe trapezoidal and ossiform at apex of median lobe (Figs 48–49).

**Material examined.** Holotype ♂, China, Shaanxi, Canyon of Qinling Botanical Garden (33.92°N, 108.35°E; elev. 925 m), 5 July 2012, leg. Ying Chen. Paratype ♂, same data as holotype.

**Distribution.** China (Shaanxi)

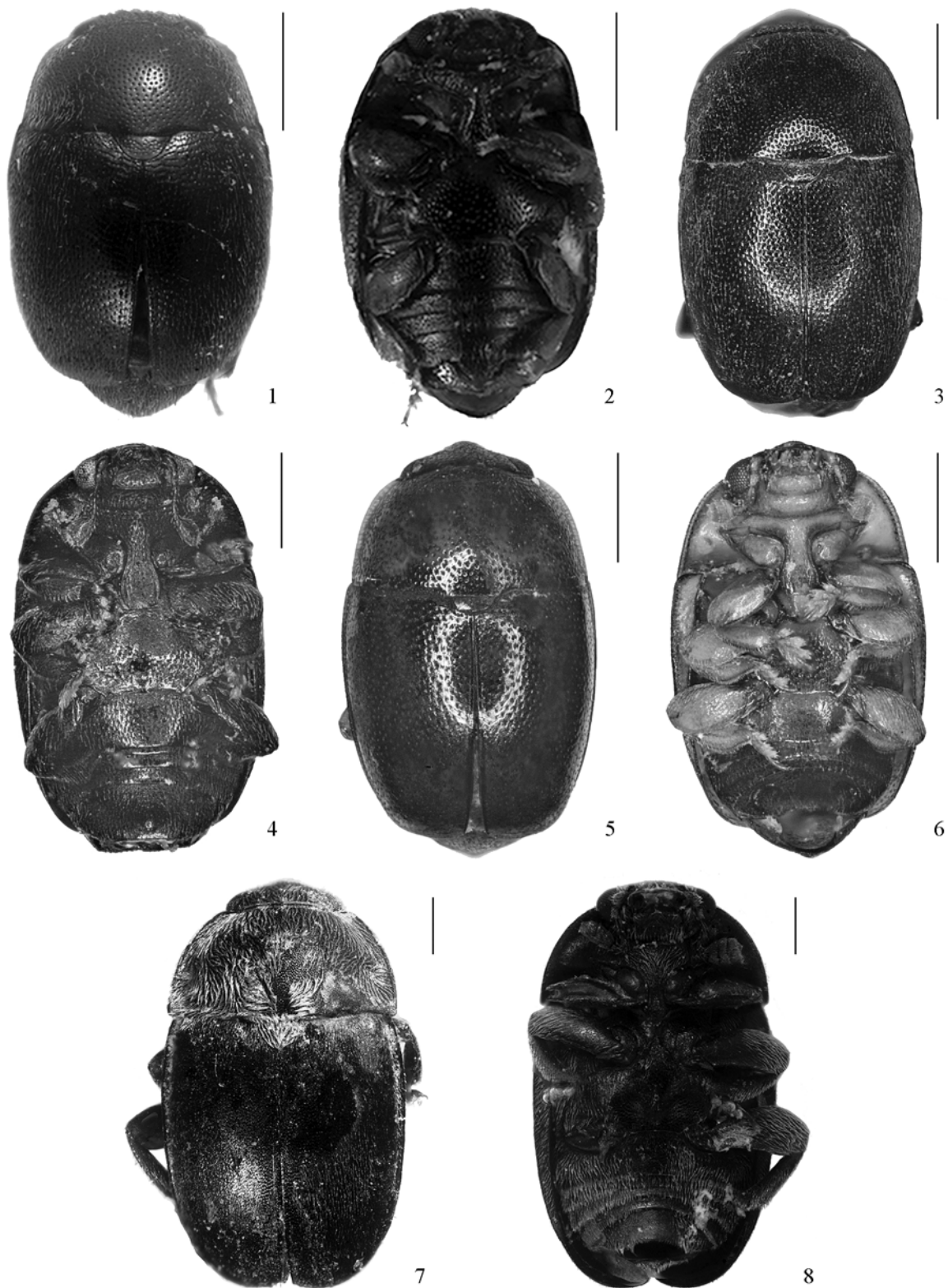
**Etymology.** The species epithet is derived from the Latin word "*polyedricus*", to indicate the shape of polygonal male aedeagus.

**Remarks.** This new species is very distinct due to the male aedeagus being polygonal, tegmen pentangular with a small V-shaped excision and median lobe trapezoidal. Body shape and colour similar with *M. shirakii* Hisamatsu, 1956, but the latter with dentations at base of claws.

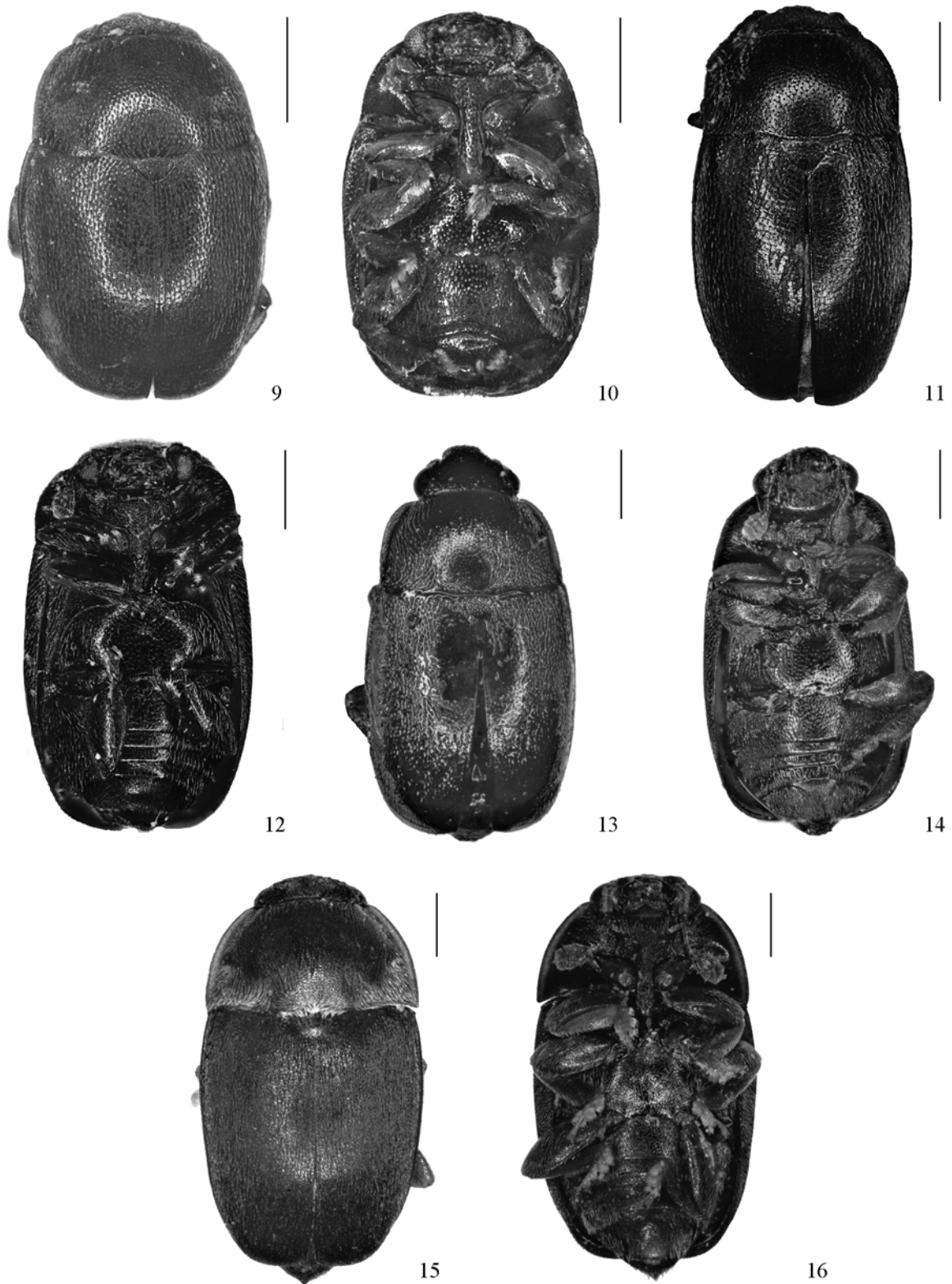
#### *Meligethes alani* Kirejtshuk, 1988 **New record to China** (Figs 3–4, 50–54)

*Meligethes alani* Kirejtshuk, 1988: 79.

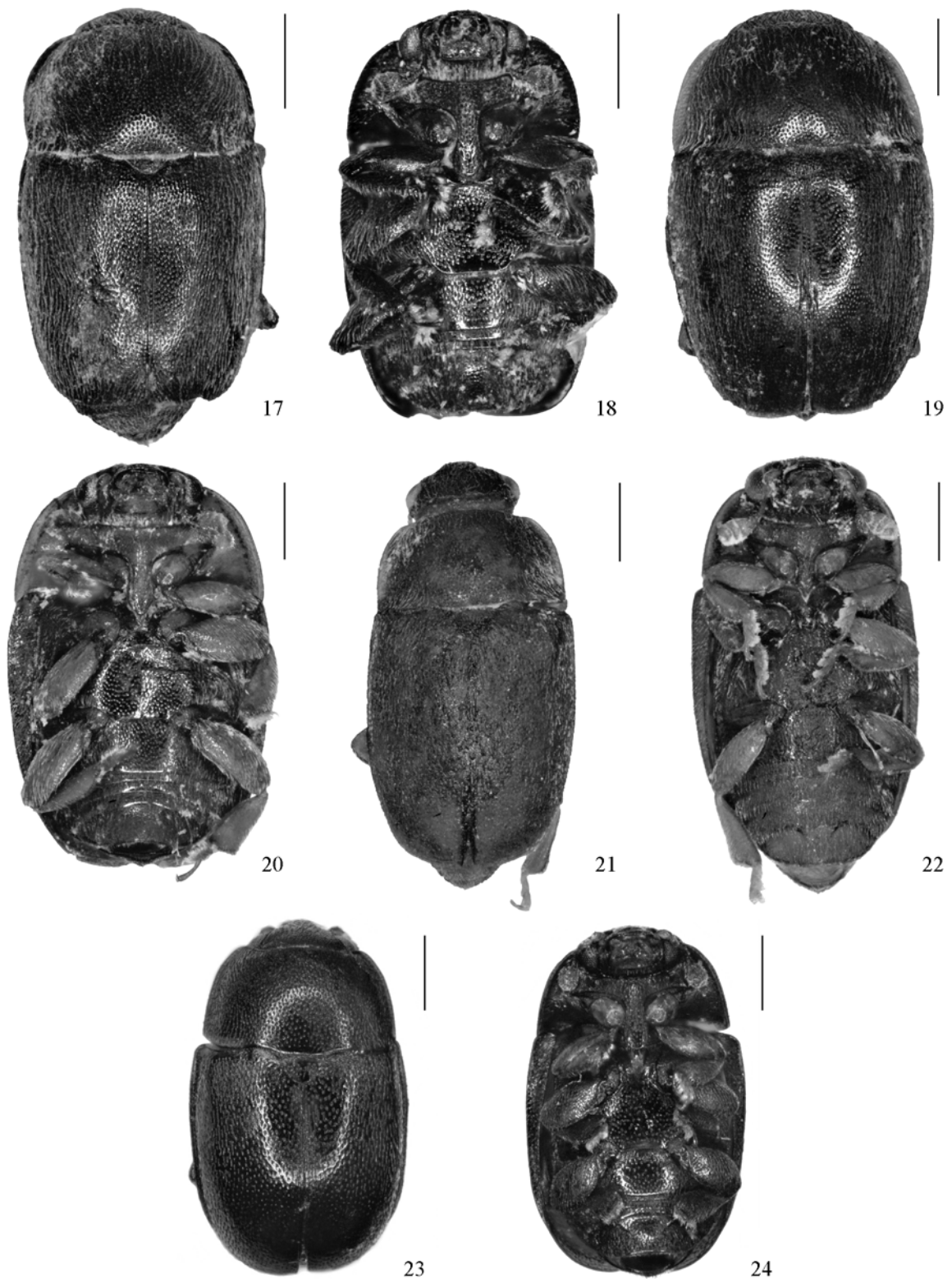
**Description.** Length 2.5 mm, breadth 1.3 mm, height 0.8 mm. Body long oval, black and rather shining; head and pronotum with short and sparse grey white pubescence somewhat longer than distances among their insertions. Elytra



Figs 1–8. Habitus, ♂. 1–2. *Meligethes polyedricus* sp. nov. 3–4. *M. alani* Kirejtshuk, 1988. 5–6. *M. dilutipes* Easton, 1956. 7–8. *M. flavimanus* Stephens. Scale bars=0.5 mm.



Figs 9–16. Habitus, ♂. 9–10. *Meligethes merkli* Kirejtshuk. 11–12. *M. matronalis* Audisio & Spornkraft, 1990. 13–14. *M. aeneus* (Fabricius, 1775). 15–16. *M. auripilis* Reitter, 1889. Scale bars=0.5 mm.



Figs 17–24. Habitus, ♂. 17–18. *Meligethes bocaki* Audisio & Jelinek, 2005. 19–20. *M. bourdilloni* Easton, 1968. 21–22. *M. coracinus* Sturm, 1845. 23–24. *M. difficilis* (Heer, 1841). Scale bars = 0.5 mm.

slightly shorter than their combined width, both sides of elytra curved, sharply narrowing distad to almost transverse at apices. Prosternum gently convex along the middle, prosternal process elongated and gradually widened with apex broadly rounded, its broadened part distinctly broader than antennal club. Tegmen and median lobe (penis trunk) sclerotised, emarginated at apex of tegmen, median lobe long and slender, nearly rectangular.

Material examined. 1♂, China, Heilongjiang, Yichun, 6 June 1971, leg. Xue-Zhong Zhang.

Distribution. China (Heilongjiang), Brazil (Natal).

***Meligethes dilutipes* Easton, 1956 New record to China** (Figs 5–6, 55–59)

*Meligethes dilutipes* Easton, 1956a: 395.

Description. Length 2.4 mm, breadth 1.4 mm, height 0.7 mm. Body convex and oval, reddish-brown, pronotum yellowish-brown, metaventricle and abdomen reddish-brown, legs and antenna yellow; head and pronotum with fine and sparse grey white pubescence. Elytra as long as their combined width, both sides of elytra curved, sharply narrowing distad to almost transverse at apices. Prosternal process obviously widened with apex broadly rounded, its broadened part distinctly broader than antennal club. Tegmen and median lobe (penis trunk) sclerotised. Male genitalia with Y-shaped apical excision on tegmen, ossiform at apex of median lobe.

Material examined. 1♂, China, Guangxi, Jinxiuhuawang Mountain Villa (elev. 600 m), 20 May 1999, leg. Xing-Ke Yang.

Distribution. China (Guangxi), Afghanistan.

***Meligethes flavimanus* Stephens, 1830 New record to China** (Figs 7–8, 60–64)

*Meligethes flavimanus* Stephens, 1830; Cooke, 1993: 271.

*Meligethes asperimus* Guillebeau, 1897: 225; Audisio *et al.*, 2003: 129.

Description. Length 3 mm, breadth 1.2–1.3 mm, height 1.0 mm. Body convex and oval, black, pronotum sides and legs dark brown; head and pronotum with dense and evident golden yellow pubescence. Elytra as long as their combined width, both sides of elytra are curved, sharply narrowing distad and almost transverse at apices. Prosternal process elongated with apex narrowly arcuated, broadened part with parallel-sides and narrower than antennal club. Tegmen and median lobe (penis trunk) sclerotised. Male genitalia with Y-shaped apical excision on tegmen, truncatus at apex of median lobe.

Material examined. 1♂, China, Shaanxi, Ningshan, Huoditang (elev. 1580 m), 18 August 1998, leg. De-Cheng Yuan.

Distribution. China (Shaanxi), France, England.

***Meligethes merkli* Kirejtshuk, 2001 New record to China** (Figs 9–10, 65–69)

*Meligethes merkli* Kirejtshuk, 2001: 67.

Description. Length 1.5–1.8 mm, breadth 1.2 mm, height 0.7 mm. Body moderately convex and oval, shiny red, pronotum light brown. Elytra and legs shiny red and rather shining; head and pronotum with dense and evident grey pubescence longer than distances among their insertions. Elytra as long as their combined width, both sides of elytra are curved, sharply narrowing distad to almost transverse at apices. Prosternal grooves obvious and wide; prosternal process obviously widened with apex broadly rounded, its broadened part distinctly broader than antennal club. Tegmen and median lobe (penis trunk) moderately sclerotised. Male genitalia with widely V-shaped apical excision on tegmen, ossiform at apex of median lobe.

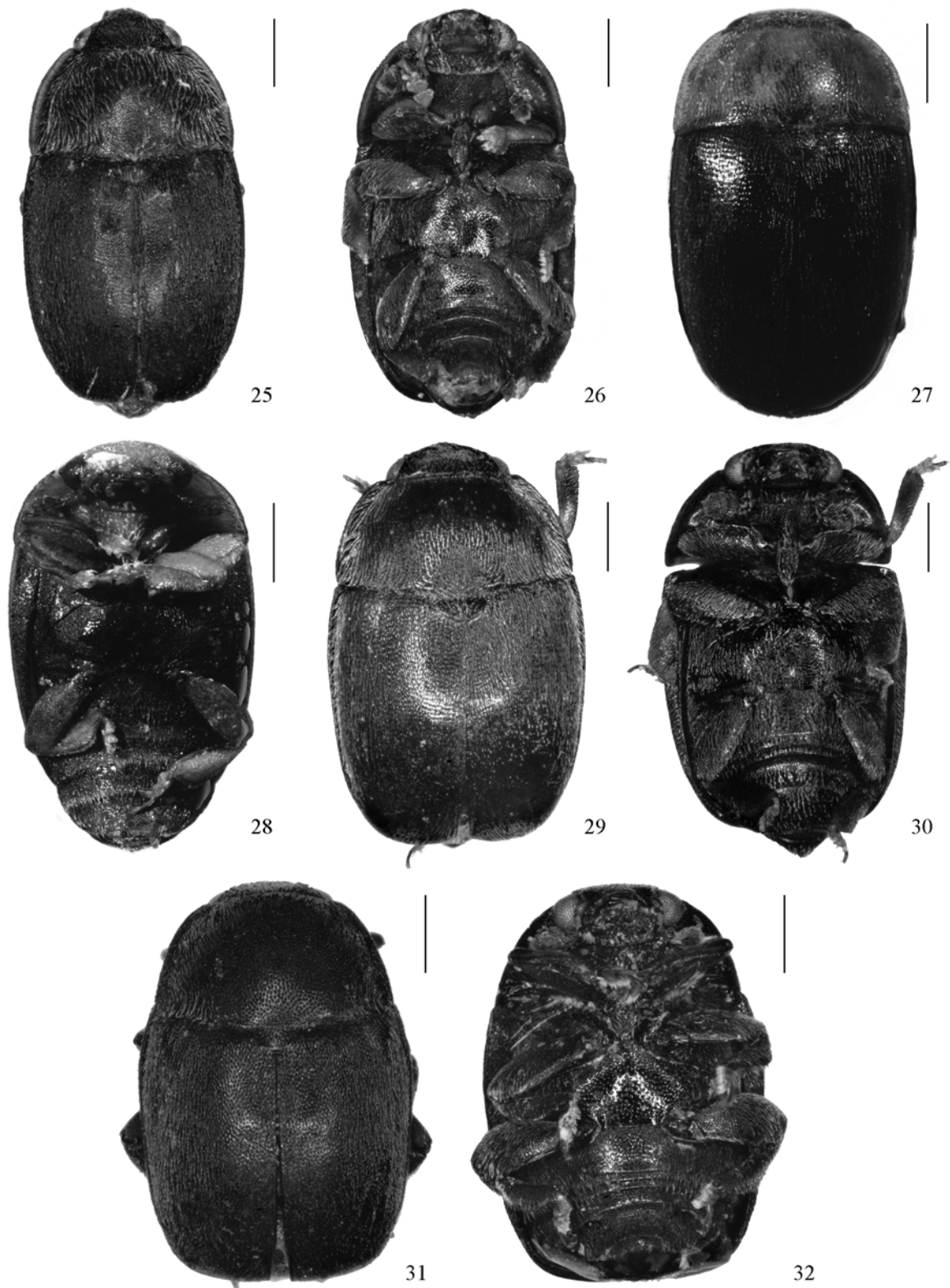
Material examined. 2♂, China, Yunnan, Deqin, Adong (elev. 2800 m), 8 April 1981, leg. Shu-Yong Wang; 1♂, Yunnan, Zhongdian, Chongjiang River (elev. 2800 m), 21 July 1984, leg. Rui-Qi Wang; 1♂, China, Tibet, Jilong (elev. 2800 m), 19 July 1975, leg. Xue-Zhong Zhang; 1♂, China, Hebei, Xiaowutai Mountain (elev. 1700 m), 3 July 1964, leg. Bing-Qian Li; 1♀, China, Sanbao, 17 August 1964, leg. Su-Bai Liao.

Distribution. China (Yunnan, Tibet, Sichuan, Beijing, Hebei), Kenya.

***Meligethes matronalis* Audisio & Spornkraft, 1990 New record to China** (Figs 11–12, 70–74)

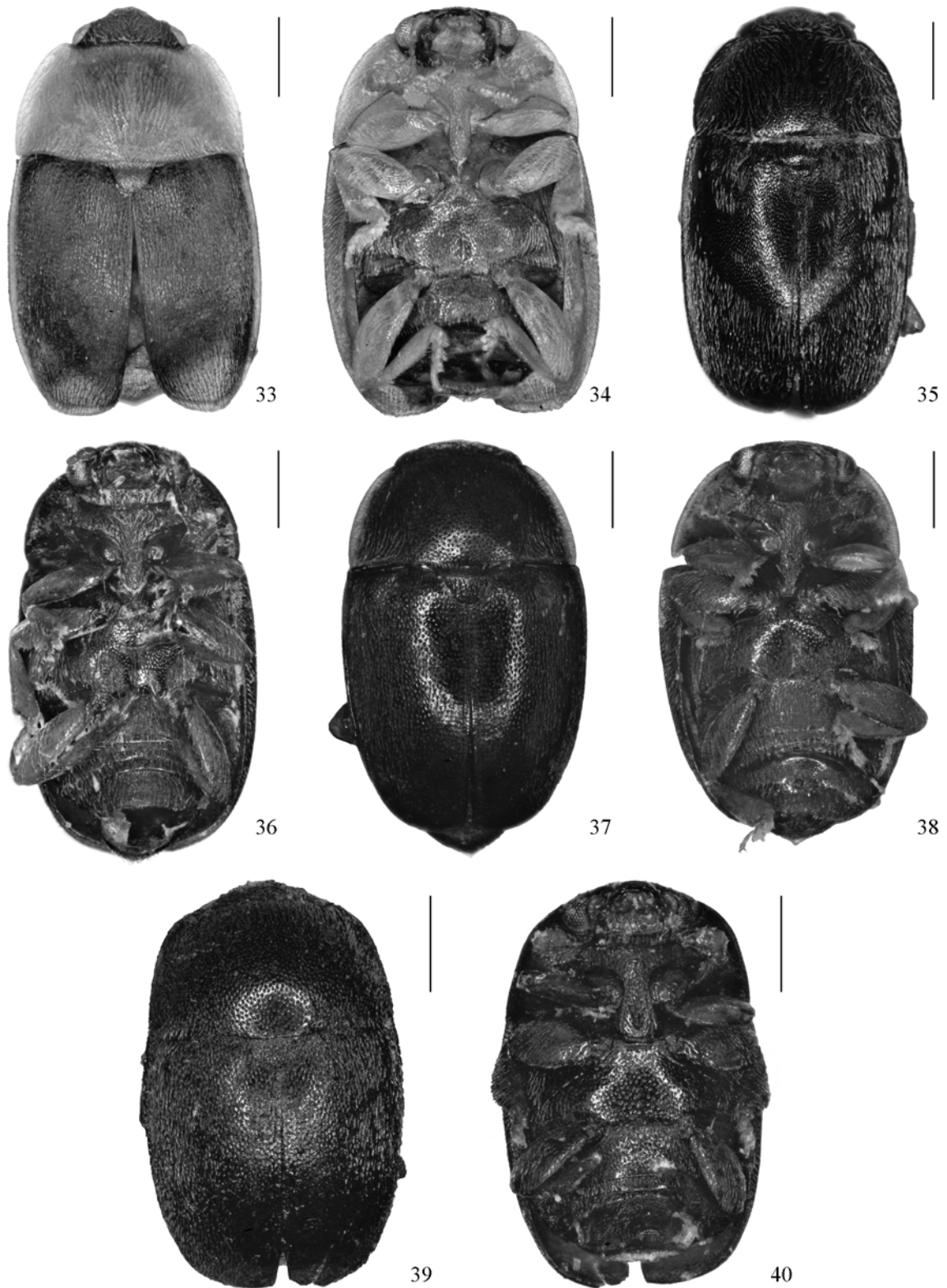
*Meligethes matronalis* Audisio & Spornkraft, 1990: 72; Ericson & Bertil, 1999: 124; Lason, 2004: 21.

*Meligethes subaeneus* Sturm, 1845: 11; Kirejtshuk, 1997: 265; Audisio *et al.*, 2001: 92.



Figs 25–32. Habitus, ♂. 25–26. *Meligethes difficiloides* Audisio, Jelinek & Cooter, 2005. 27–28. *M. flavicollis* Reitter, 1873. 29–30. *M. hammondi* Kirejtshuk, 1980. 31–32. *M. initialis* Kirejtshuk, 1979. Scale bars=0.5 mm.





Figs 33–40. Habitus, ♂. 33–34. *Meligethes nakanei* Easton, 1957. 35–36. *M. semenovi* Kirejtshuk, 1979. 37–38. *M. shirakii* Hisamatsu, 1956. 39–40. *M. simillimus* Kireitshuk, 1984. Scale bars = 0.5 mm.



**Diagnosis.** Length 2.0–2.5 mm, breadth 1.2–1.3 mm, height 0.7 mm. Body moderately convex and oval, black, with green luster. Head and pronotum with fine and sparse golden yellow pubescence longer than distances among their insertions. Elytra longer than their combined width, both sides of elytra are curved, sharply narrowing distad to round at apices. Prosternal process apex broadly rounded, its broadened part with parallel-sides and equal to antennal club. Tegmen and median lobe (penis trunk) sclerotised. Male genitalia with V-shaped apical excision on tegmen, emarginated at apex of median lobe.

**Material examined.** 2♂, 2♀, China, Sichuan, Xiangcheng, Zhongredao (elev. 3 500–3 800 m), 5 July 1982, leg. Shu-Yong Wang.

**Distribution.** China (Sichuan), Italy, Germany, Sweden, Poland, Austria, Turkey, Caucasus.

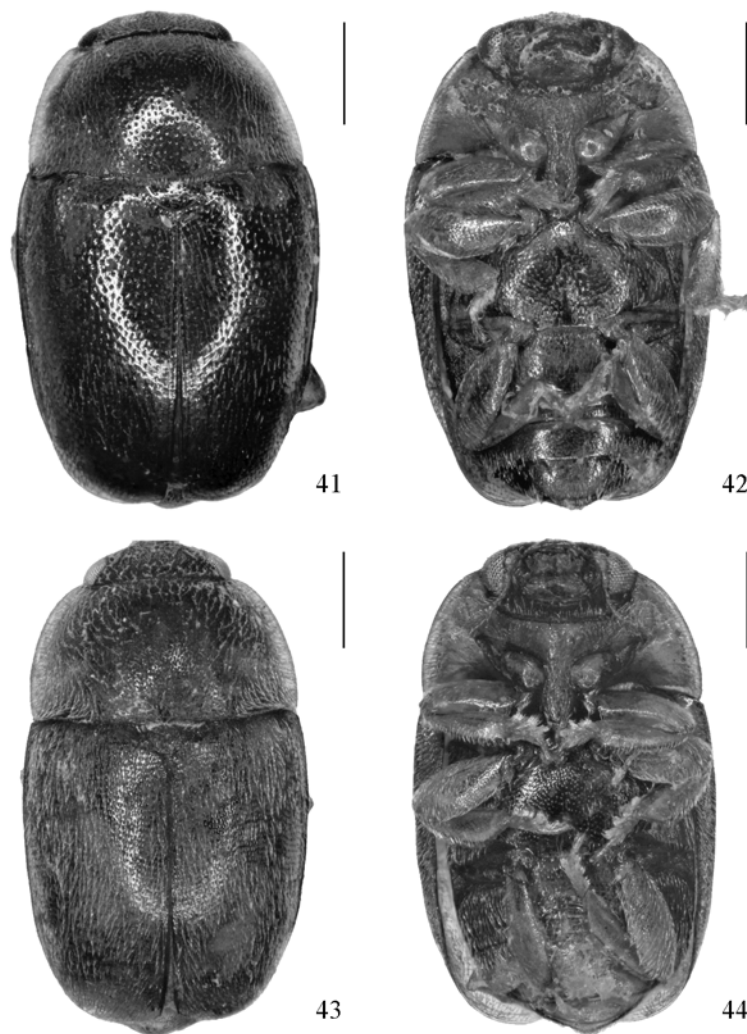
### General catalogue of the *Meligethes* from China

#### *Meligethes* Stephens, 1830

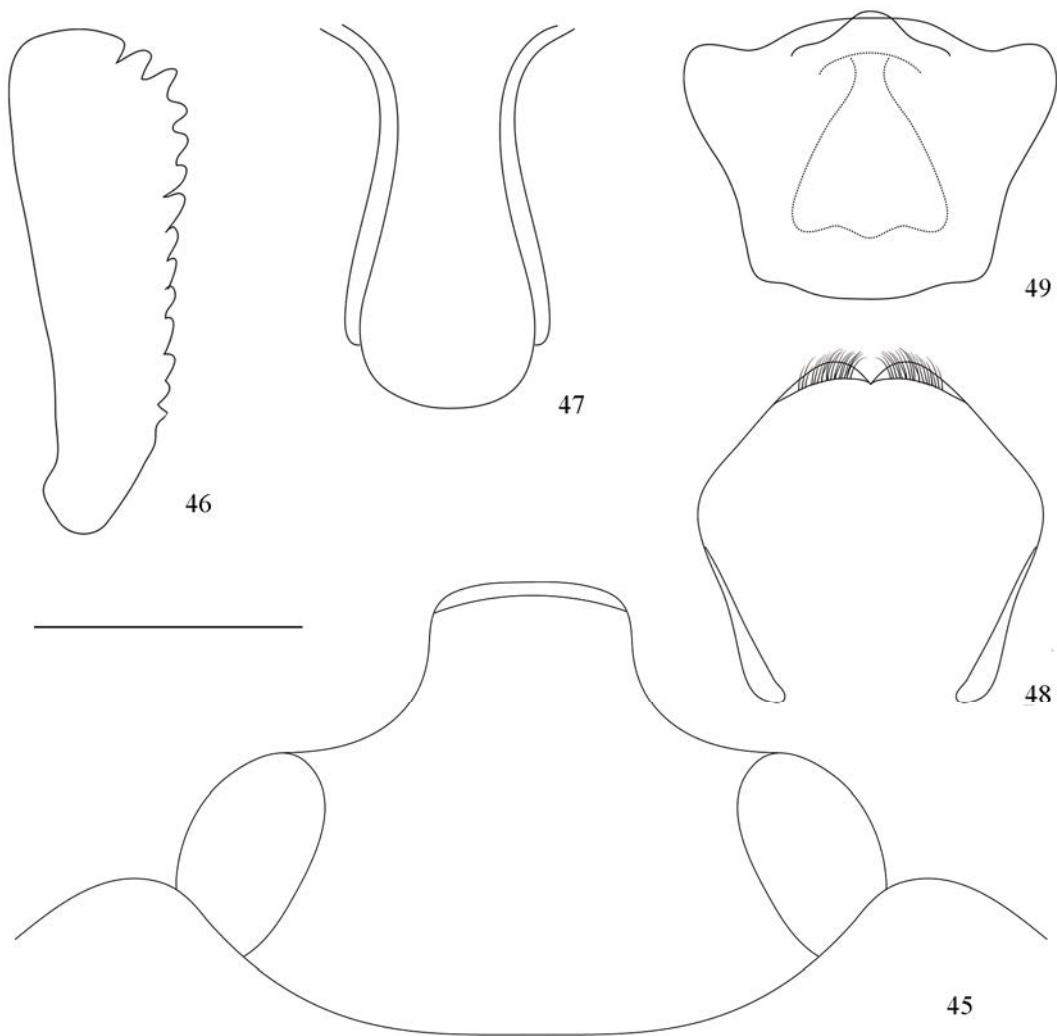
*Meligethes* Stephens, 1830: 30; Erichson, 1843: 309; Jacquelin, 1858: 146; Grouvelle, 1913: 28; Reitter, 1919: 16; Easton, 1956a: 9; Kirejtshuk, 1977: 629; 1992: 116, 168; Audisio, 1980: 9, 38; 1993: 389, 400; Jelínek, 1982: 289; Hisamatsu, 1985: 175; Kirk-Spriggs, 1996: 35; Audisio *et al.*, 2005: 111; Jelínek & Audisio, 2007: 478.

*Odontogethes* Reitter, 1871: 154.

Type species: *Nitidula rufipes* Marsham, 1802: 130.



Figs 41–44. Habitus, ♂. 41–42. *Meligethes viridescens* (Fabricius, 1787). 43–44. *M. wagneri* Rebmann, 1956. Scale bars=0.5 mm.



Figs 45–49. *Meligethes polyedricus* **sp. nov.**, ♂. 45. Head. 46. Front tibia. 47. Prosternal process. 48. Tegmen, ventral view. 49. Medial lobe of aedeagus, ventral. Scale bar = 0.2 mm.

***Meligethes abditus* Audisio, Jelinek & Cooter, 2005**

*Meligethes abditus* Audisio, Jelinek & Cooter, 2005: 120.

Distribution. China (Beijing).

***Meligethes aeneus* (Fabricius, 1775) (Figs 13–14)**

*Nitidula aeneus* Fabricius, 1775: 78.

*Meligethes aeneus* Easton, 1951: 284; Jelinek, 1981: 204; Kirejtshuk, 1997: 262; Audisio *et al.*, 2003: 129; Jelinek & Audisio, 2009: 235.

*Meligethes kelchii* Gistel, 1857: 530.

*Meligethes boops* Easton, 1956b: 386.

*Meligethes latipes* Marsham, 1802: 366.

*Meligethes nigrinus* Marsham, 1802: 120.

Distribution. China (Sichuan, Shaanxi, Gansu), Ireland.

***Meligethes affinis* Jelinek, 1982**

*Meligethes affinis* Jelinek, 1982: 295.

Distribution. China (Sichuan).

***Meligethes alani* Kirejtshuk, 1988 (Figs 3–4, 50–54)**

*Meligethes alani* Kirejtshuk, 1988: 79.

Distribution. China (Heilongjiang), Brazil.

***Meligethes ancestor* Kirejtshuk, 1980**

*Meligethes ancestor* Kirejtshuk, 1980: 843.

Distribution. China (Shaanxi).

***Meligethes atratus* (Olivier, 1790)**

*Nitidula atrata* Olivier, 1790, 12: 18.

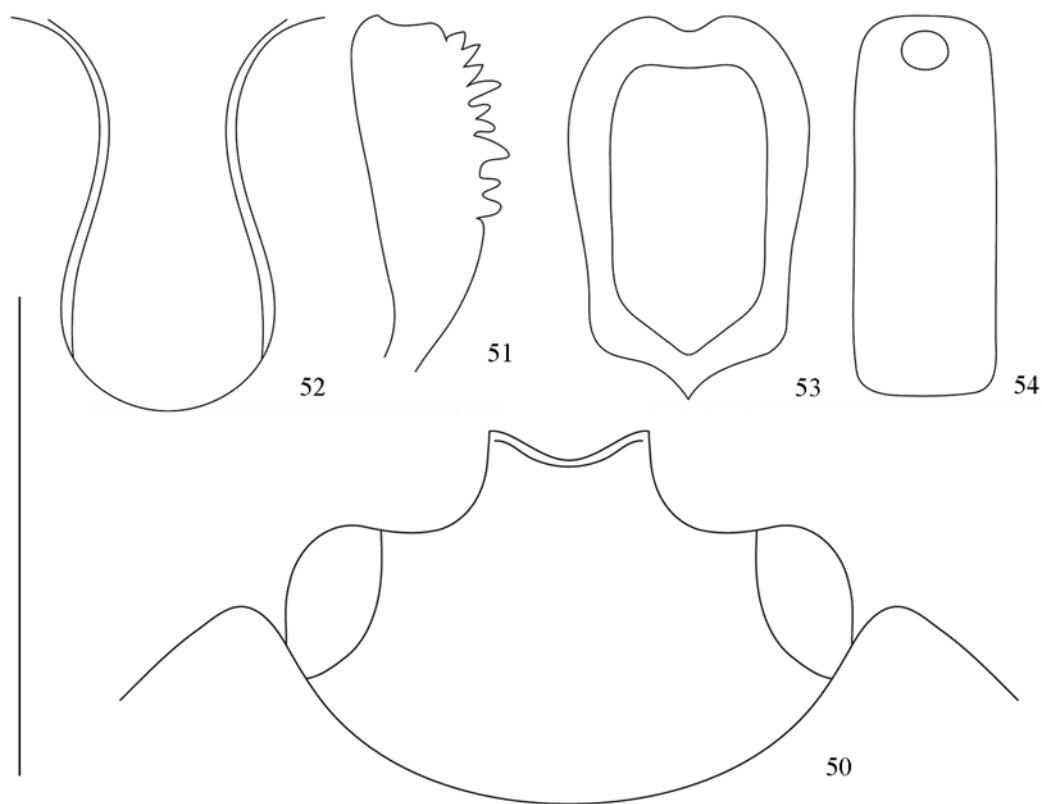
*Nitidula rufipes* Marsham, 1802: 130.

Distribution. China (Xinjiang), Russia, Poland, South Africa.

***Meligethes audisioi* Jelinek, 1997**

*Meligethes audisioi* Jelinek, 1997: 132.

Distribution. China (Tibet).



Figs 50–54. *Meligethes alani* Kirejtshuk, 1988, ♂. 50. Head. 51. Front tibia. 52. Prosternal process. 53. Tegmen, ventral view. 54. Medial lobe of aedeagus, ventral. Scale bar = 0.5 mm.

***Meligethes auricomus* Rebmann, 1956***Meligethes auricomus* Rebmann, 1956b: 131.

Distribution. China (Fujian, Sichuan).

***Meligethes auripilis* Reitter, 1889** (Figs 15–16)*Meligethes auripilis* Reitter, 1889: 558.

Distribution. China (Gansu, Jiangsu, Shaanxi, Sichuan, Shanxi, Xizang).

***Meligethes bocaki* Audisio & Jelinek, 2005** (Figs 17–18)*Meligethes bocaki* Audisio & Jelinek, 2005: 122.

Distribution. China (Yunnan, Sichuan).

***Meligethes bourdilloni* Easton, 1968** (Figs 19–20)*Meligethes bourdilloni* Easton, 1968: 46.

Distribution. China (Yunnan), Nepal.

***Meligethes brevipilus* Kirejshuk, 1980***Meligethes brevipilus* Kirejtshuk, 1980: 837.

Distribution. China (Sichuan, Yunnan).

***Meligethes castanescens* Grouvelle, 1903***Meligethes castanescens* Grouvelle, 1903: 114.

Distribution. China (Guizhou, Taiwan, Yunnan), India.

***Meligethes chinensis* Kirejtshuk, 1979***Meligethes chinensis* Kirejtshuk, 1979: 65.

Distribution. China (Sichuan, Yunnan).

***Meligethes chlorocupreus* Audisio, Jelinek & Cooter, 2005***Meligethes chlorocupreus* Audisio, Jelinek & Cooter, 2005: 113.

Distribution. China (Sichuan).

***Meligethes circularis* Sahlberg, 1903***Meligethes circularis* Sahlberg, 1903a: 18.

Distribution. China, Siberia, Mongolia.

***Meligethes conjungens* Grouvelle, 1910***Meligethes conjungens* Grouvelle, 1910: 246.

Distribution. China (Yunnan).

***Meligethes coracinus* Sturm, 1845** (Figs 21–22)*Meligethes coracinus* Sturm, 1845: 17; Audisio & Spornkraft, 1990: 71; Audisio, 1988: 195.*Meligethes pumilus* Erichson, 1845: 176.*Meligethes epuraeoides* Reitter, 1875: 10.

*Meligethes longulus* Schilsky, 1894: 8.

*Meligethes basalis* Reitter, 1919: 159.

Distribution. China (Xinjiang, Gansu), Slovakia, Turkey.

***Meligethes devillei* Grouvelle, 1912**

*Meligethes devillei* Grouvelle, 1912: 168; Kirejshuk, 1978: 578.

Distribution. China (Xinjiang), Caucasus, Turkey.

***Meligethes difficilis* (Heer, 1841) (Figs 23–24)**

*Nitidula difficilis* Heer, 1841: 403.

*Meligethes luctifer* Reitter, 1872: 129.

*Meligethes difficilis*: Reitter, 1871: 73; Rye, 1872: 36; Audisio, 1984: 149; Audisio, 1986: 123.

Distribution. China (Zhejiang, Xinjiang), Russia, Austria, Britain, Estonia.

***Meligethes difficiloides* Audisio, Jelinek & Cooter, 2005 (Figs 25–26)**

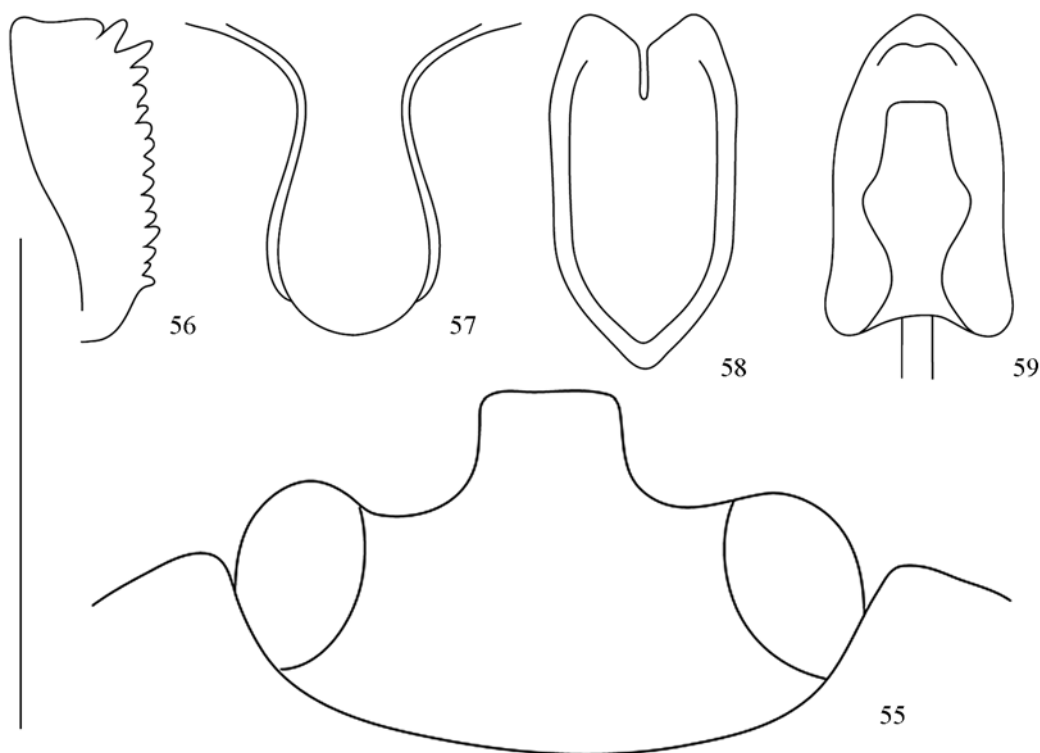
*Meligethes difficiloides* Audisio, Jelinek & Cooter, 2005: 114.

Distribution. China (Gansu, Shanxi, Sichuan, Yunnan).

***Meligethes dilutipes* Easton, 1957 (Figs 5–6, 55–59)**

*Meligethes dilutipes* Easton, 1957a: 395.

Distribution. China (Guangxi), Afghanistan.



Figs 55–59. *Meligethes dilutipes* Easton, 1956, ♂. 55. Head. 56. Front tibia. 57. Prosternal process. 58. Tegmen, ventral view. 59. Medial lobe of aedeagus, ventral. Scale bar = 0.5 mm.

***Meligethes flavicollis* Reitter, 1873** (Figs 27–28)*Meligethes flavicollis* Reitter, 1873: 76; 1884: 265; Easton, 1956b: 558.*Meligethes semirufus* Reitter, 1879: 216.

Distribution. China (Zhejiang, Taiwan), East Siberia.

***Meligethes flavimanus* Stephens, 1830** (Figs 7–8, 60–64)*Meligethes flavimanus* Stephens, 1830: 45; Cooke, 1993: 271.*Meligethes asperrimus* Guillebeau, 1897: 225; Audisio *et al.*, 2003: 129.

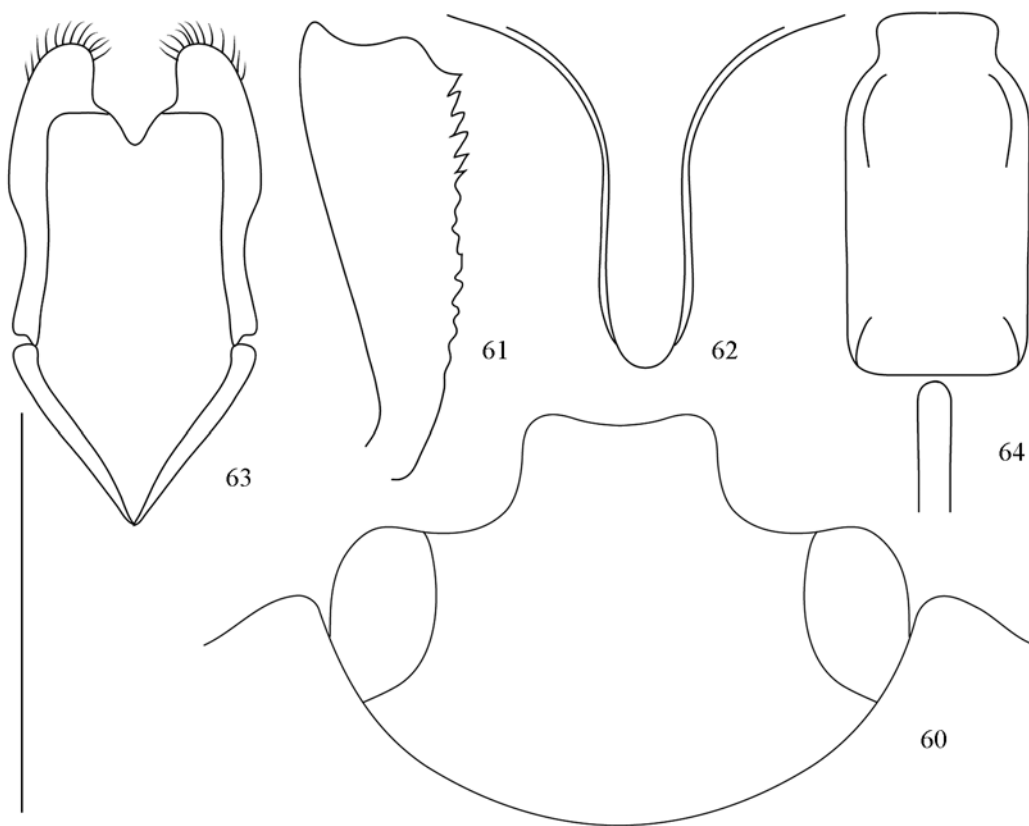
Distribution. China (Shaanxi), France, Britain.

***Meligethes gagathinus* Erichson, 1845***Meligethes gagathinus* Erichson, 1845: 201; Reitter, 1871: 135.

Distribution. China (Xinjiang), Europe.

***Meligethes hammondi* Kirejtshuk, 1980** (Figs 29–30)*Meligethes hammondi* Kirejtshuk, 1980: 840; Jelínek, 1997: 131.

Distribution. China (Ningxia, Henan, Hubei, Shaanxi).

***Meligethes initialis* Kirejtshuk, 1979** (Figs 31–32)*Meligethes initialis* Kirejtshuk, 1979: 59.

Figs 60–64. *Meligethes flavimanus* Stephens, 1830, ♂. 60. Head. 61. Front tibia. 62. Prosternal process. 63. Tegmen, ventral view. 64. Medial lobe of aedeagus, ventral. Scale bar = 0.5 mm.

Distribution. China (Gansu, Sichuan).

***Meligethes kasparyani* Kirejtshuk, 1984**

*Meligethes kasparyani* Kirejtshuk, 1984: 525; Audisio & Jelinek, 2005: 111.

Distribution. China (Beijing), Russia.

***Meligethes lloydi* Easton, 1968**

*Meligethes lloydi* Easton, 1968: 44.

Distribution. China (Taiwan, Yunnan, Xizang), Nepal.

***Meligethes merkli* Kirejtshuk, 2001 (Figs 9–10, 65–69)**

*Meligethes merkli* Kirejtshuk, 2001: 67.

Distribution. China (Yunnan, Xizang, Sichuan, Beijing, Hebei), Kenya.

***Meligethes matronalis* Audisio & Spornkraft, 1990 (Figs 11–12, 70–74)**

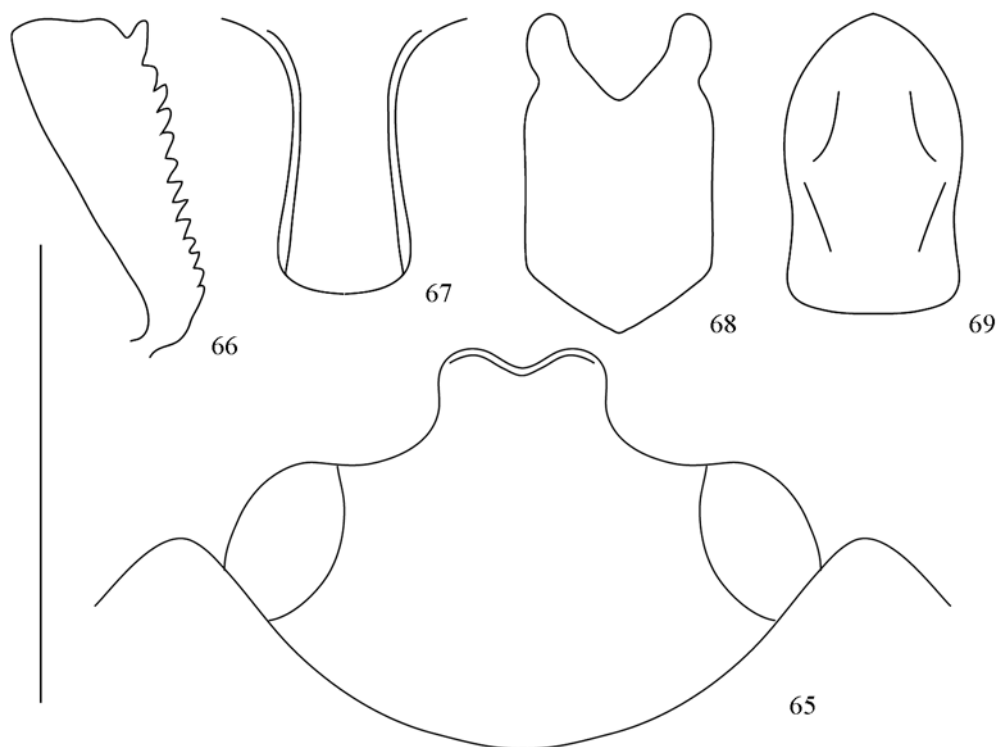
*Meligethes matronalis* Audisio & Spornkraft, 1990: 72; Kirejtshuk, 1997: 265; Erichson, 1999: 124; Audisio *et al.*, 2001: 92; Lason, 2004: 21.

*Meligethes subaeneus* Sturm, 1845: 11.

Distribution. China (Sichuan), Italy, Germany, Sweden, Poland, Austria, Turkey, Caucasus.

***Meligethes maurus* Sturm, 1845**

*Meligethes maurus* Sturm, 1845: 36; Reitter, 1871: 99; Rye, 1872: 267; Reitter, 1873: 74; Sahlberg, 1913: 102.



Figs 65–69. *Meligethes merkli* Kirejtshuk, 2001, ♂. 65. Head. 66. Front tibia. 67. Prosternal process. 68. Tegmen, ventral view. 69. Medial lobe of aedeagus, ventral. Scale bar=0.5 mm.



*Meligethes meridianus* Reitter, 1871: 99.

Distribution. China (Xinjiang), East Siberia.

***Meligethes mikado* Reitter, 1884**

*Meligethes mikado* Reitter, 1884: 265; Easton, 1957b: 411.

Distribution. China (Heilongjiang), Japan.

***Meligethes morosus* Erichson, 1845**

*Meligethes morosus* Erichson, 1845: 184; Easton, 1957b: 417.

*Meligethes memnonius* Erichson, 1845: 183.

*Meligethes lewisii* Reitter, 1873: 74.

Distribution. China (Heilongjiang), Estonia, UK.

***Meligethes nakanei* Easton, 1957 (Figs 33–34)**

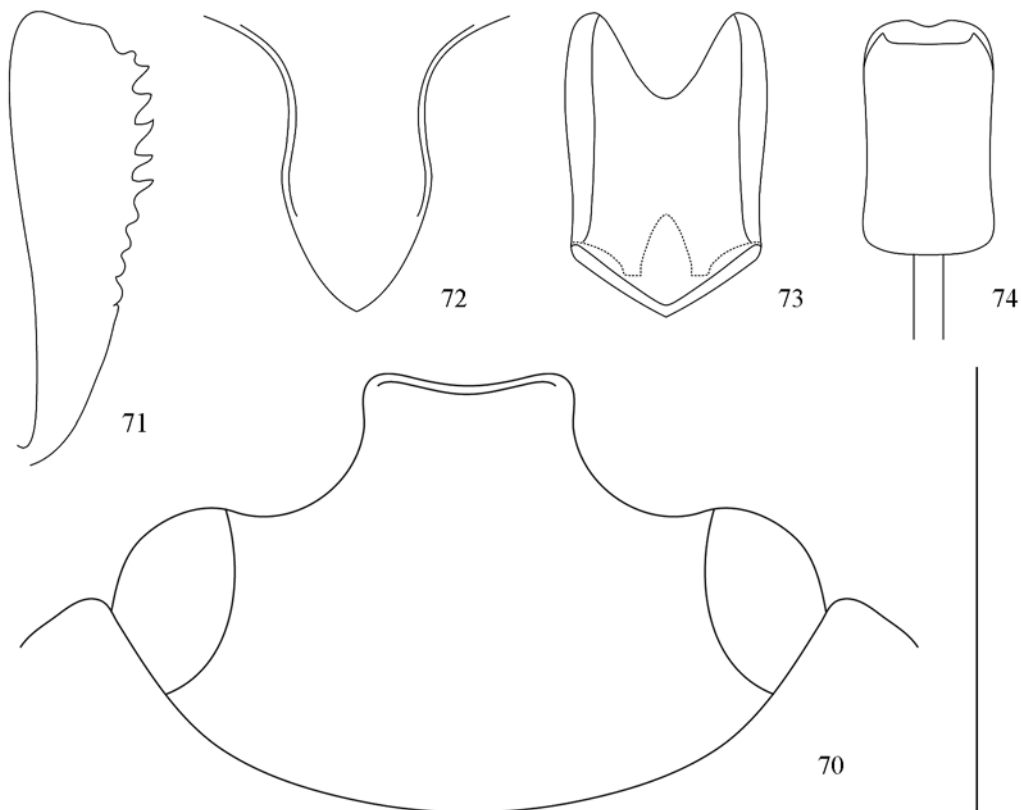
*Meligethes nakanei* Easton, 1957b: 418; Kirejtshuk, 1979: 75.

*Meligethes eastoni* Jelínek, 1965: 138.

Distribution. China (Beijing, Hebei, Yunnan), Mongolia, Japan.

***Meligethes pallidoelytrorum* Chen & Kirejtshuk, 2013**

*Meligethes pallidoelytrorum* Chen & Kirejtshuk, 2013: 36.



Figs 70–74. *Meligethes matronalis* Audisio & Spornkraft, 1990, ♂. 70. Head. 71. Front tibia. 72. Prosternal process. 73. Tegmen, ventral view. 74. Medial lobe of aedeagus, ventral. Scale bar=0.5 mm.

Distribution. China (Sichuan).

***Meligethes pectoralis* Rebmann, 1956**

*Meligethes pectoralis* Rebmann, 1956: 47; Kirejtshuk, 2005: 51; Hisamatsu, 2009: 32.

Distribution. China (Fujian, Taiwan, Guizhou, Zhejiang), Japan.

***Meligethes pedicularius* (Gyllenhal, 1808)**

*Nitidula pedicularius* Gyllenhal, 1808: 236.

*Meligethes sinuans* Rey, 1889: 27.

*Meligethes pedicularius*: Audisio, 1986: 122; Kirk-Spriggs, 1994: 9.

Distribution. China (Xinjiang), Poland, Siberia.

***Meligethes potanini* Kirejtshuk, 1979**

*Meligethes potanini* Kirejtshuk, 1979: 57.

Distribution. China (Sichuan).

***Meligethes praetermissus* Easton, 1957**

*Meligethes praetermissus* Easton, 1957: 403.

Distribution. China (Heilongjiang), Japan, Western Siberia.

***Meligethes reitteri* Schilsky, 1894**

*Meligethes reitteri* Schilsky, 1894: 4; Spornraft, 1987: 73.

Distribution. China (Xinjiang), Germany, Yugoslavia.

***Meligethes sadanarii* Hisamatsu, 2009**

*Meligethes sadanarii* Hisamatsu, 2009: 35.

Distribution. China (Taiwan).

***Meligethes semenovi* Kirejtshuk, 1979 (Figs 35–36)**

*Meligethes semenovi* Kirejtshuk, 1979: 66.

Distribution. China (Xizang, Sichuan, Shaanxi), Russia.

***Meligethes serripes* (Gyllenhal, 1827)**

*Nitidula serripes* Gyllenhal, 1827: 30.

*Meligethes quadridens* Forster, 1849: 21.

*Meligethes serripes*: Reitter, 1871: 82.

Distribution. China (Xinjiang), Europe.

***Meligethes shirakii* Hisamatsu, 1956 (Figs 37–38)**

*Meligethes shirakii* Hisamatsu, 1956: 168; Easton, 1957b: 410.

Distribution. China (Sichuan, Shaanxi, Taiwan), Japan.

***Meligethes shirozui* Hisamatsu, 1965**

*Meligethes shirozui* Hisamatsu, 1965: 137.

Distribution. China (Taiwan).

***Meligethes simillimus* Kirejtshuk, 1984** (Figs 39–40)

*Meligethes simillimus* Kirejtshuk, 1984: 522.

Distribution. China (Beijing, Liaoning), Russia.

***Meligethes subater* Kirejtshuk, 1980**

*Meligethes subater* Kirejtshuk, 1980: 844.

Distribution. China (Heilongjiang, Shaanxi).

***Meligethes subrugosus* Gyllenhal, 1808**

*Meligethes subrugosus* Gyllenhal, 1808: 236; Easton, 1956b: 176.

*Meligethes subtrigosus* Erichson, 1845: 178.

Distribution. China (Shaanxi), Poland.

***Meligethes sulcatus* Brisout de Barneville, 1863**

*Meligethes sulcatus* Brisout de Barneville, 1863: 51; Audisio, 1988: 221.

*Meligethes schweigeri* Jelínek, 1968: 1.

Distribution. China (Xinjiang), Turkey, Denmark, Netherlands, Siberia.

***Meligethes tilmani* Easton, 1968**

*Meligethes tilmani* Easton, 1968: 40.

Distribution. China (Xizang), Nepal, Pakistan, India.

***Meligethes topali* Kirejtshuk, 1988**

*Meligethes topali* Kirejtshuk, 1988: 65.

Distribution. China, India.

***Meligethes torquatus* Jelinek, 1997**

*Meligethes torquatus* Jelinek, 1997: 128; Hisamatsu, 2009: 27.

Distribution. China (Taiwan).

***Meligethes transmissus* Kirejtshuk, 1988**

*Meligethes transmissus* Kirejtshuk, 1988: 62.

Distribution. China (Sichuan, Yunnan, Xizang).

***Meligethes violaceus* Reitter, 1873**

*Meligethes violaceus* Reitter, 1873: 71; Jelinek, 1997: 131.

Distribution. China (Zhejiang), Japan, Russia.

***Meligethes viridescens* (Fabricius, 1787)** (Figs 41–42)

*Nitidula viridescens* Fabricius, 1787: 52.

*Meligethes pratincola* Gistel, 1857: 600.

*Meligethes viridescens*: Reitter, 1871: 135; Reitter, 1872: 262; Easton, 1956a: 31.

Distribution. China (Sichuan, Tibet), Canada, Ireland.

***Meligethes vulpes* Solsky, 1876**

*Meligethes vulpes* Solsky, 1876: 251; Easton, 1956b: 388; Kirejtshuk, 1977: 630.

*Meligethes transmutatus* Grouvelle, 1913: 393.

*Meligethes melanocephalus* Rebmann, 1957: 132.

Distribution. China (Xinjiang).

***Meligethes wagneri* Rebmann, 1956** (Figs 43–44)

*Meligethes wagneri* Rebmann, 1956a: 45.

Distribution. China (Fujian).

***Meligethes zakharenkoi* Kirejtshuk, 2005**

*Meligethes zakharenkoi* Kirejtshuk, 2005: 104; Hisamatsu, 2009: 39.

Distribution. China (Taiwan).

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